

2020 CSR Incoming Chair Orientation

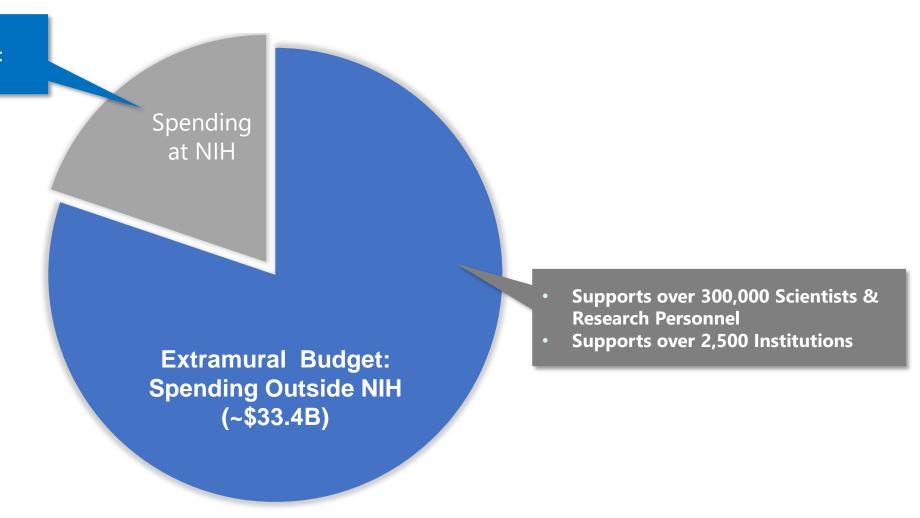
Brief Overview - Key Issues In Peer Review

Noni Byrnes, Ph.D.

Director, Center for Scientific Review

The Critical Importance of Peer Review – The Main Driver of NIH Extramural Funding FY 2020 NIH Budget: \$41.6 Billion

- Intramural Research
- Research Management & Support and Other





CSR Mission





Center for Scientific Review

To ensure that NIH grant applications receive fair, independent, expert, and timely reviews - free from inappropriate influences - so NIH can fund the most promising research.



You and the NIH: Integrity in the Peer Review Process





Center for Scientific Review

To ensure that NIH grant applications receive fair, independent, expert, and timely reviews - <u>free from</u> <u>inappropriate influences</u> - so NIH can fund the most promising research.



Integrity of the Peer Review Process Critically important for all of us

- Maintaining the public trust in the NIH's stewardship of taxpayer dollars to support U.S. biomedical science research
- Confidentiality is critical for candor in discussion and evaluation, and thus impacts
 the very basis of the peer review process
- Will take the support of the entire research community investigators, reviewers, chairs, NIH staff, institutional officials
- NIH is taking this issue <u>very</u> seriously— not widespread problem, but increased reporting/action culture change



Integrity of the Peer Review Process What is the NIH Doing? More reporting/action



ACTIONS

Following up on every allegation

Actions have included

- Deferral of application
- Withdrawal of application
- Removal from serving on peer review committees
- Notifying the institution of the PI or reviewer which has led to personnel actions
- Pursuing government-wide suspension and disbarment, or referral to other agencies for criminal violations



PRO-ACTIVE MEASURES

- Review Integrity Officer
- Enhanced Reporting SRO signature
- Enhanced SRO Awareness and Training
- Tighter IT controls
- Outreach to scientific community culture change
- Reviewer/Chair Awareness and Training
 Online Module with Case Studies –
 piloted with 70+ study sections in the last 2
 rounds, to all next round



Integrity of the Peer Review Process What Can You Do As Chair?

- Absolute confidentiality of the meeting materials and proceedings scores, discussions, application content, critiques
- No ex parte hallway or dinner discussions (in Zoom: without the entire panel assembled and the SRO present) – model good behavior yourself, call it out when you see it, change the culture, tell the SRO.
- Be prudent about accepting seminar invitations from applicants while their application is under review
- Err on the side of caution report any potential violations to your SRO, or the CSR Review Integrity Officer csrrio@mail.nih.gov or the NIH Review Policy Officer at reviewpolicyofficer@mail.nih.gov



You and the NIH: Fairness in the Peer Review Process





Center for Scientific Review

To ensure that NIH grant applications receive <u>fair</u>, independent, expert, and timely reviews - free from inappropriate influences - so NIH can fund the most promising research.



Fairness of the Peer Review Process What Can You Do As Chair?

- Recognize your influence in setting and changing the study section culture
- Actively foster a positive study section culture confidentiality, integrity, encouraging broader participation/inclusion across the committee, call out statements that bias the scientific assessment (institution, career-stage, field, race/gender)
- Promote a focus on significance (ask the question), and consistency in scoring score/word match, aligned to score guidance.



Fairness of the Peer Review Process - Getting at Significance If successful (if everything works).....

- No one wants to call the baby ugly
- Easier to pick on methodological weaknesses unfair to the applicant
- Encourage thoughtful scientific discourse of potentially significant versus incremental advance – ask the question
- Call out score justifications based on counts or descriptors of weaknesses ("1 major and 2 minor weaknesses") orient back to the score chart a potentially incremental advance with NO weaknesses in the approach cannot score in the 1-3 range.

Overall Impact:

The likelihood for a project to exert a <u>sustained</u>, <u>powerful</u> influence on research field(s) involved

Overall Impact	High	Medium	Low
Score	1 2 3	4 5 6	7 8 9

Evaluating Overall Impact:

Consider the 5 criteria: significance, investigator, innovation, approach, environment (weighted based on reviewer's judgment) and other score influences, e.g. human subjects

e.g. Applications are addressing a problem of high importance/interest in the field. May have some or no technical weaknesses.

e.g. Applications may be addressing a problem of high importance in the field, but weaknesses in the criteria bring down the overall impact to medium.

e.g. Applications may be addressing a problem of <u>moderate</u> importance in the field, with some or no technical weaknesses e.g. Applications may be addressing a problem of moderate/high importance in the field, but weaknesses in the criteria bring down the overall impact to low.

e.g. Applications may be addressing a problem of <u>low</u> or <u>no</u> importance in the field, with some or no technical weaknesses.



This Is CSR





Q/A, Discussion CSRdirector@csr.nih.gov

